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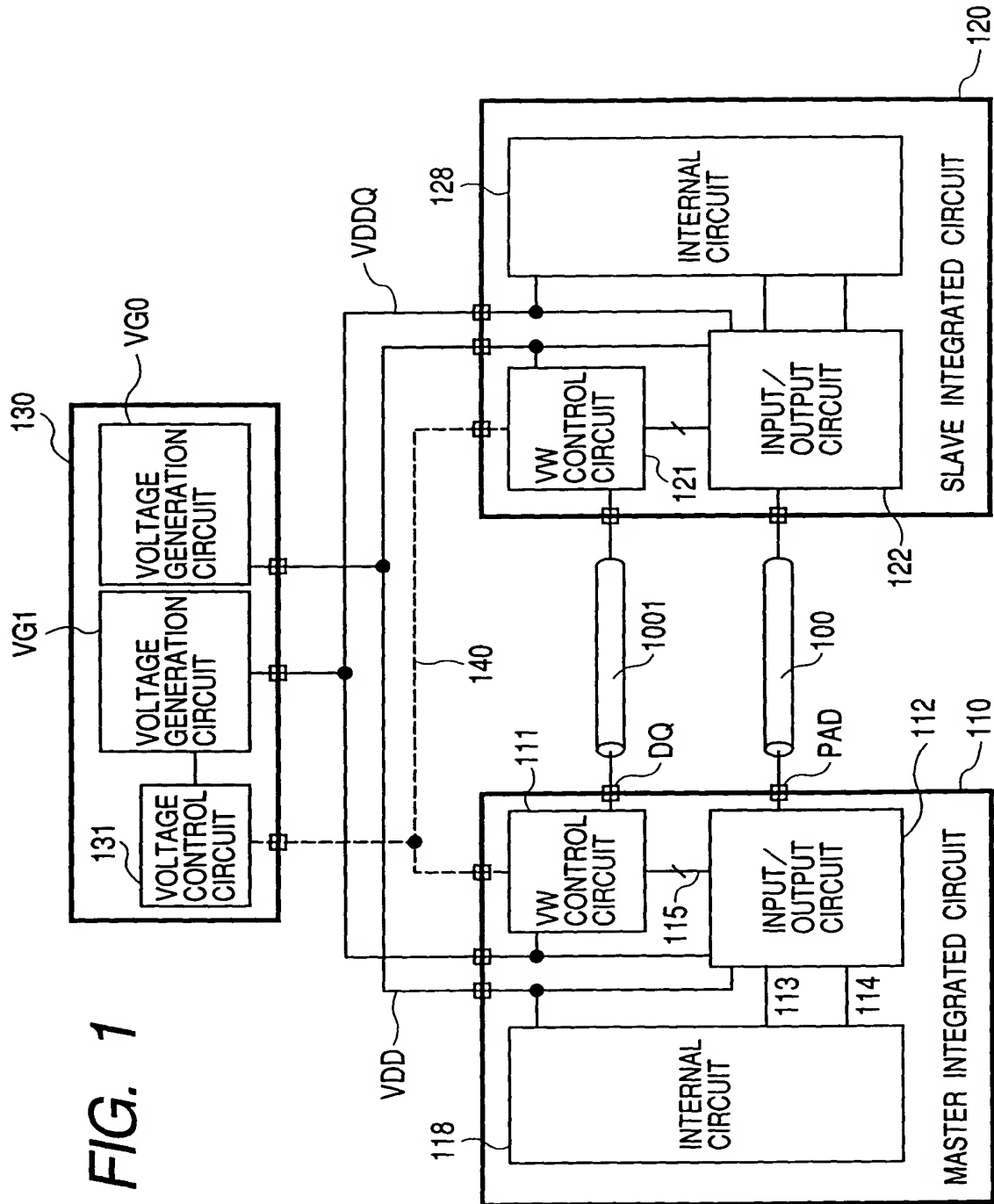


FIG. 1

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FIG. 2

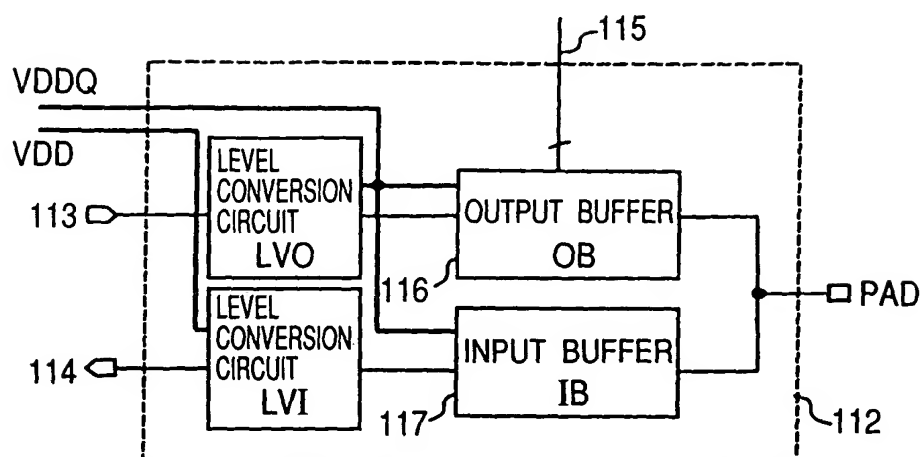
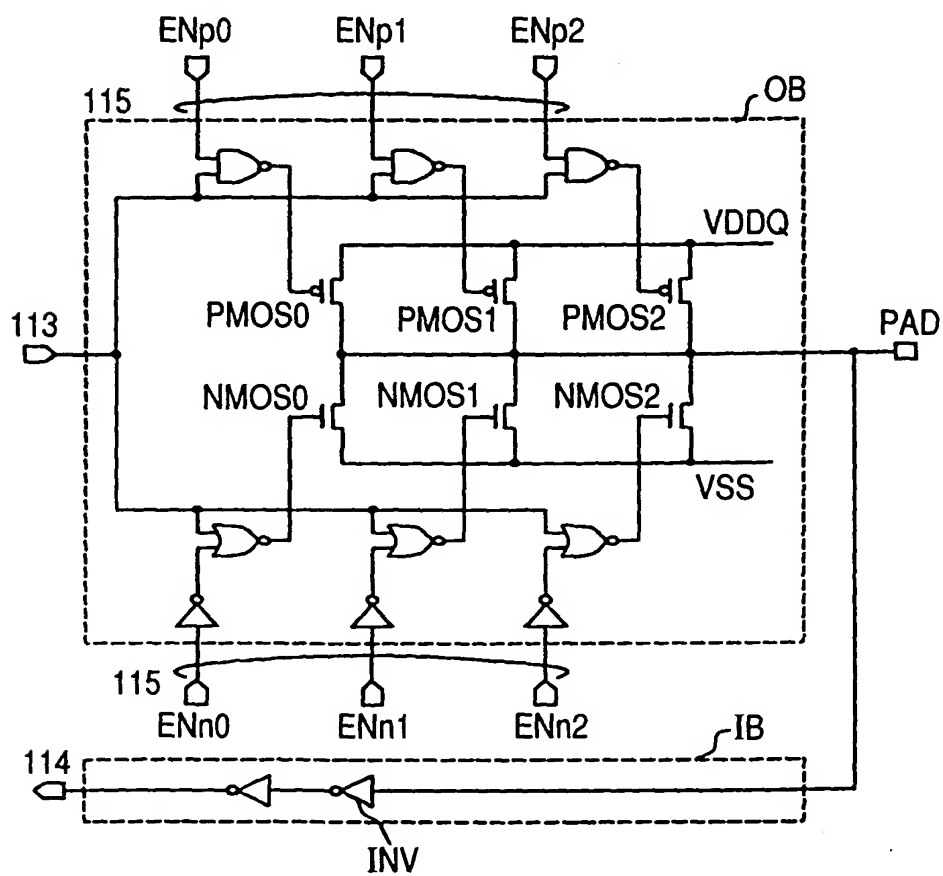


FIG. 3



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FIG. 4

(A) (MASTER INTEGRATED CIRCUIT)

ENi code	NMOS size (μm)	I/O Power supply voltage VDDQ (V)			
		1.5	1.8	2.2	2.5
(001)	44	566	345	231	189
(010)	88	283	173	116	95
(011)	132	189	115	77	63
(100)	176	142	86	58	47
(101)	220	113	69	46	38
(110)	264	94	58	39	32
(111)	308	81	49	33	27

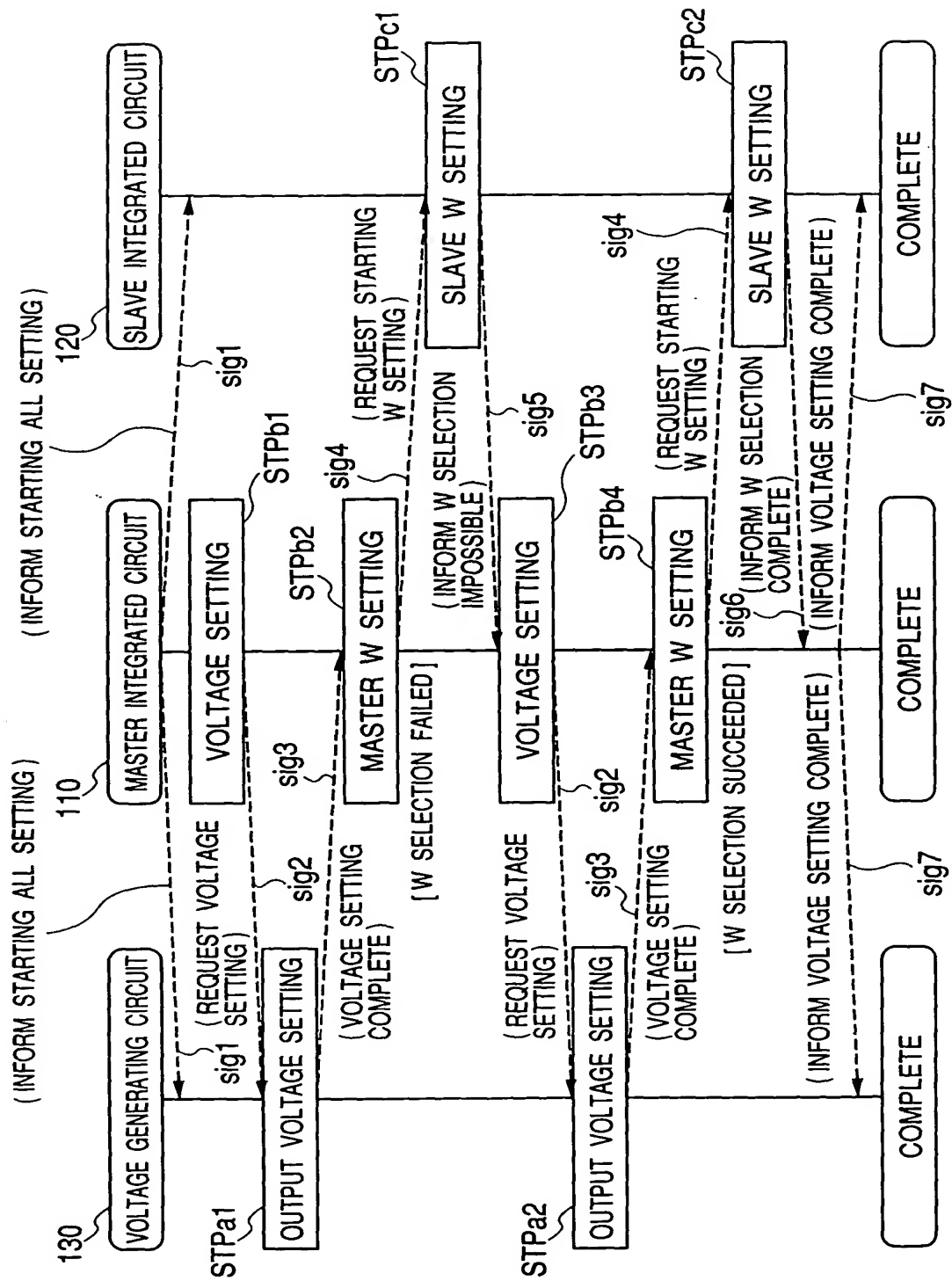
A1 B1

(B) (SLAVE INTEGRATED CIRCUIT)

ENi code	NMOS size (μm)	I/O Power supply voltage VDDQ (V)			
		1.5	1.8	2.2	2.5
(001)	40	228	182	151	136
(010)	80	114	91	76	68
(011)	120	76	61	50	45
(100)	160	57	46	38	34
(101)	200	46	36	30	27
(110)	240	38	30	25	23
(111)	280	33	26	22	19

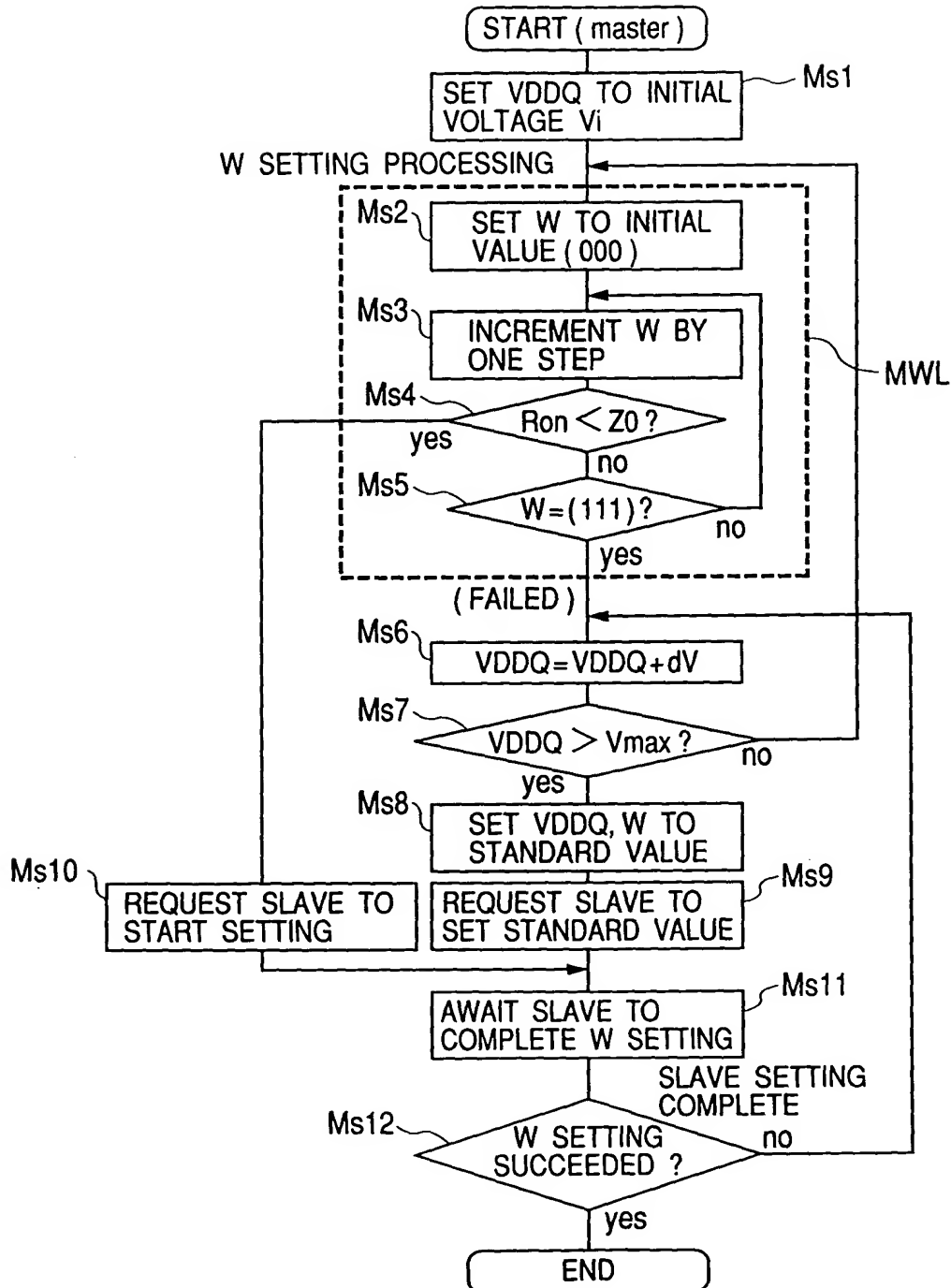
A2 B2

FIG. 5



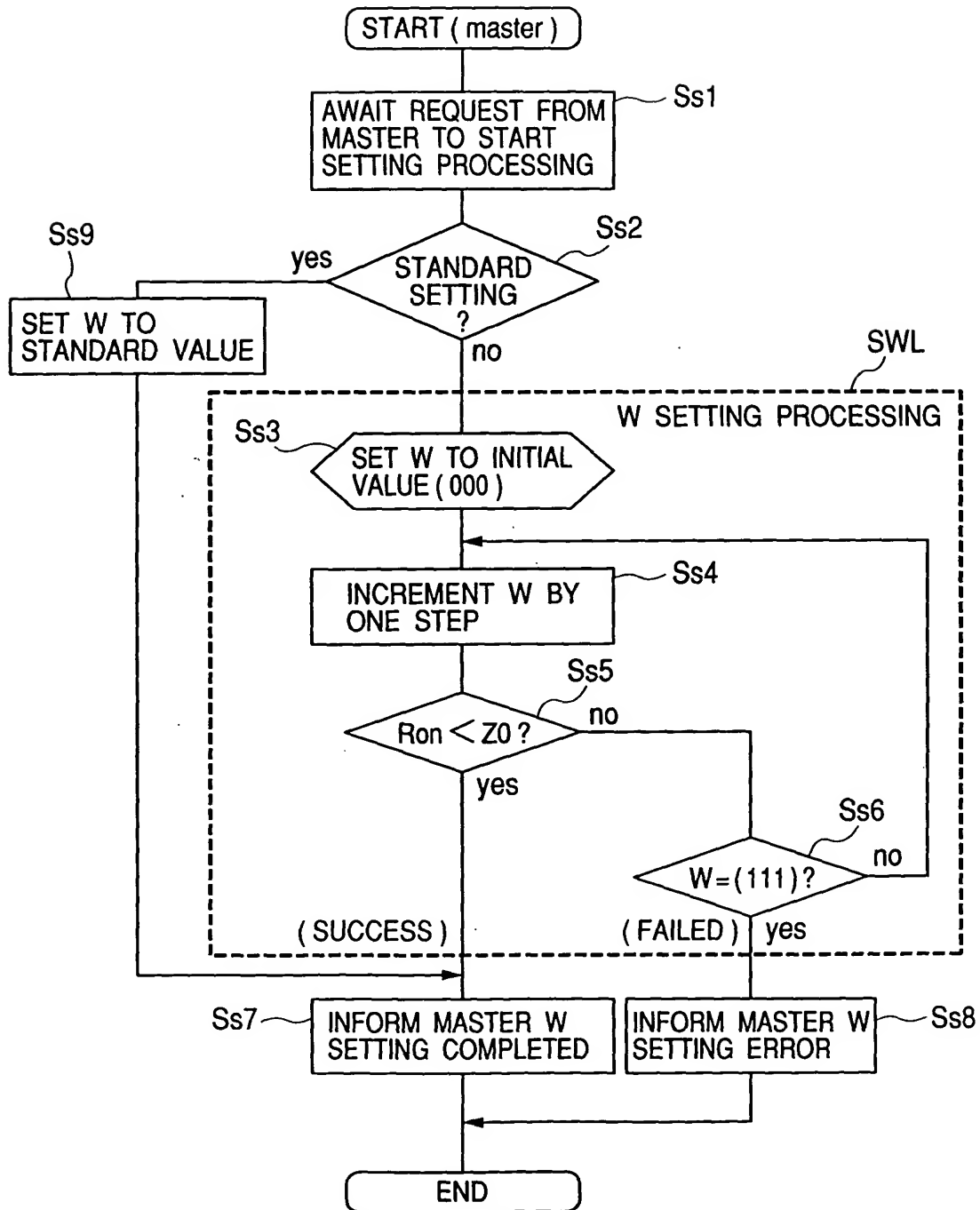
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FIG. 6



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FIG. 7



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FIG. 8

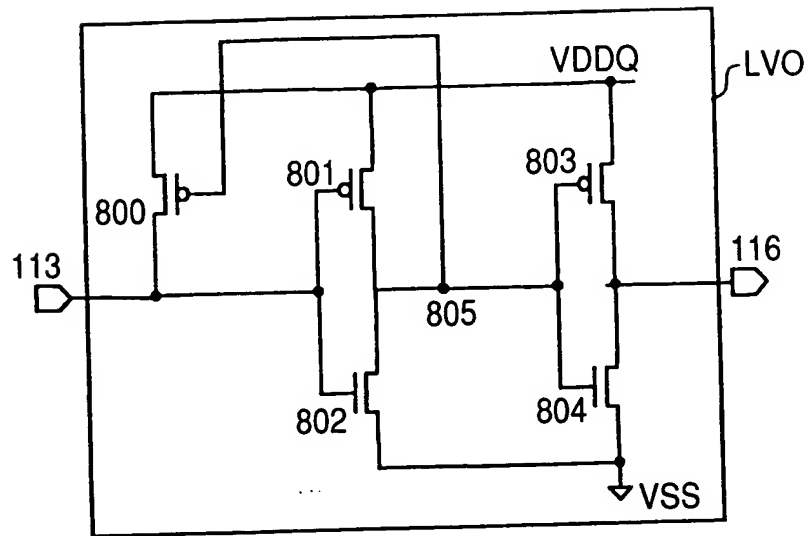
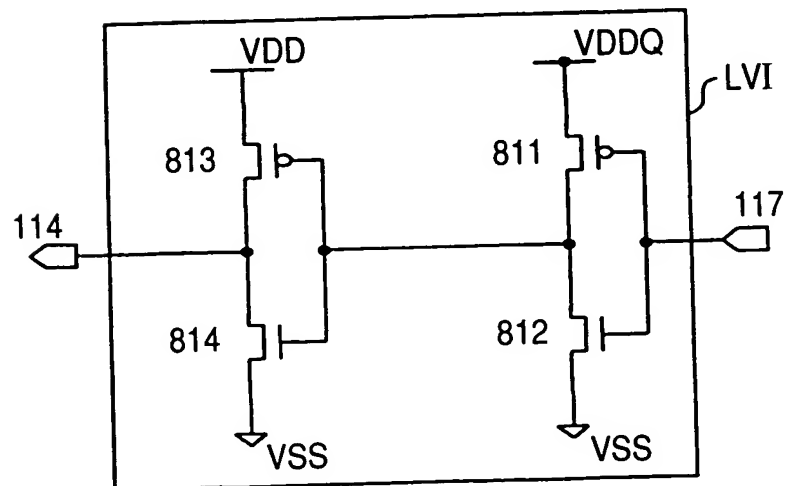
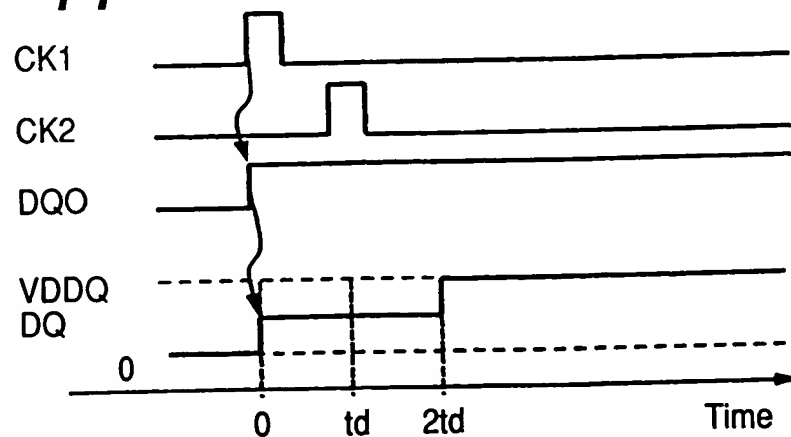


FIG. 9





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FIG. 12

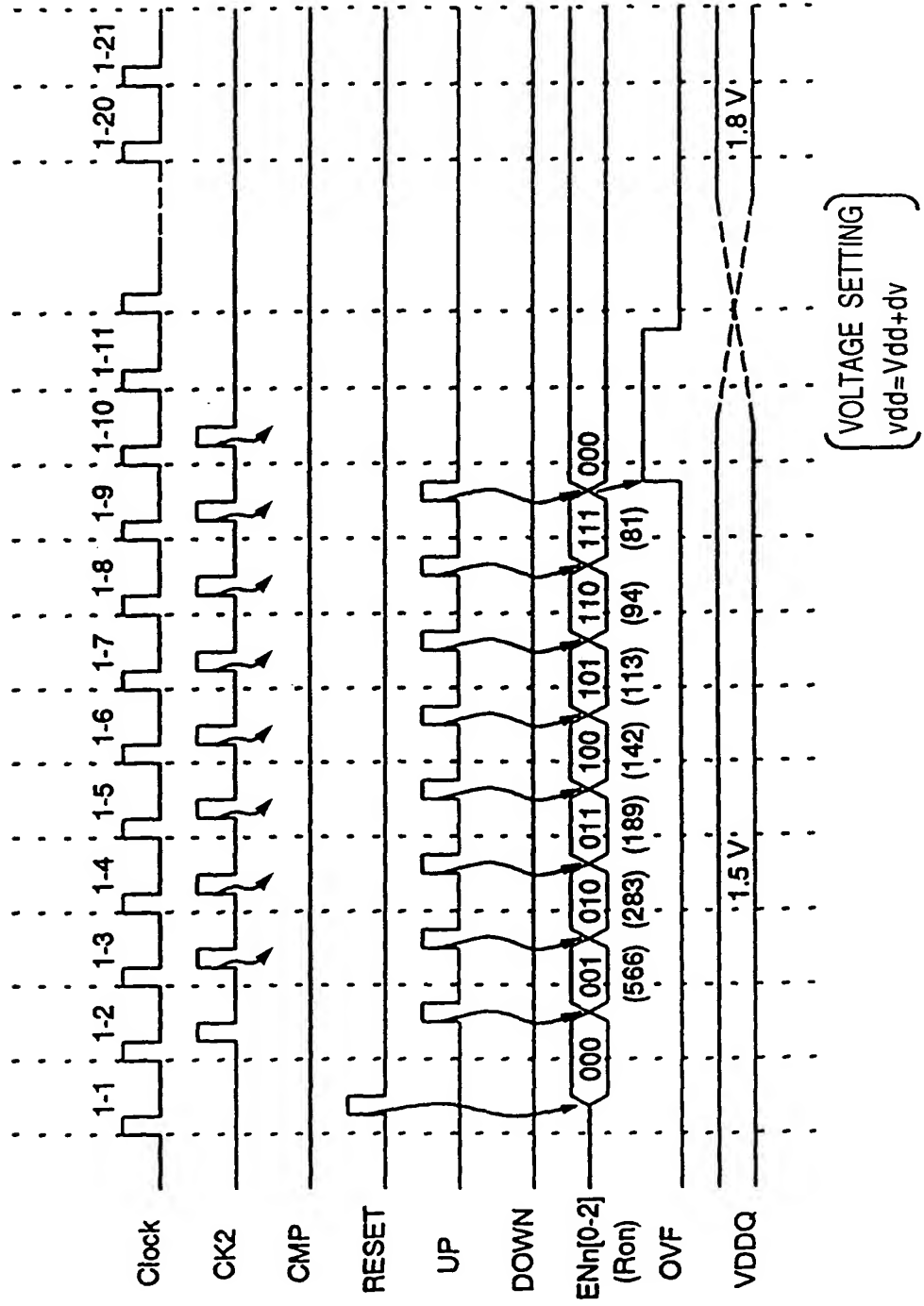


FIG. 14

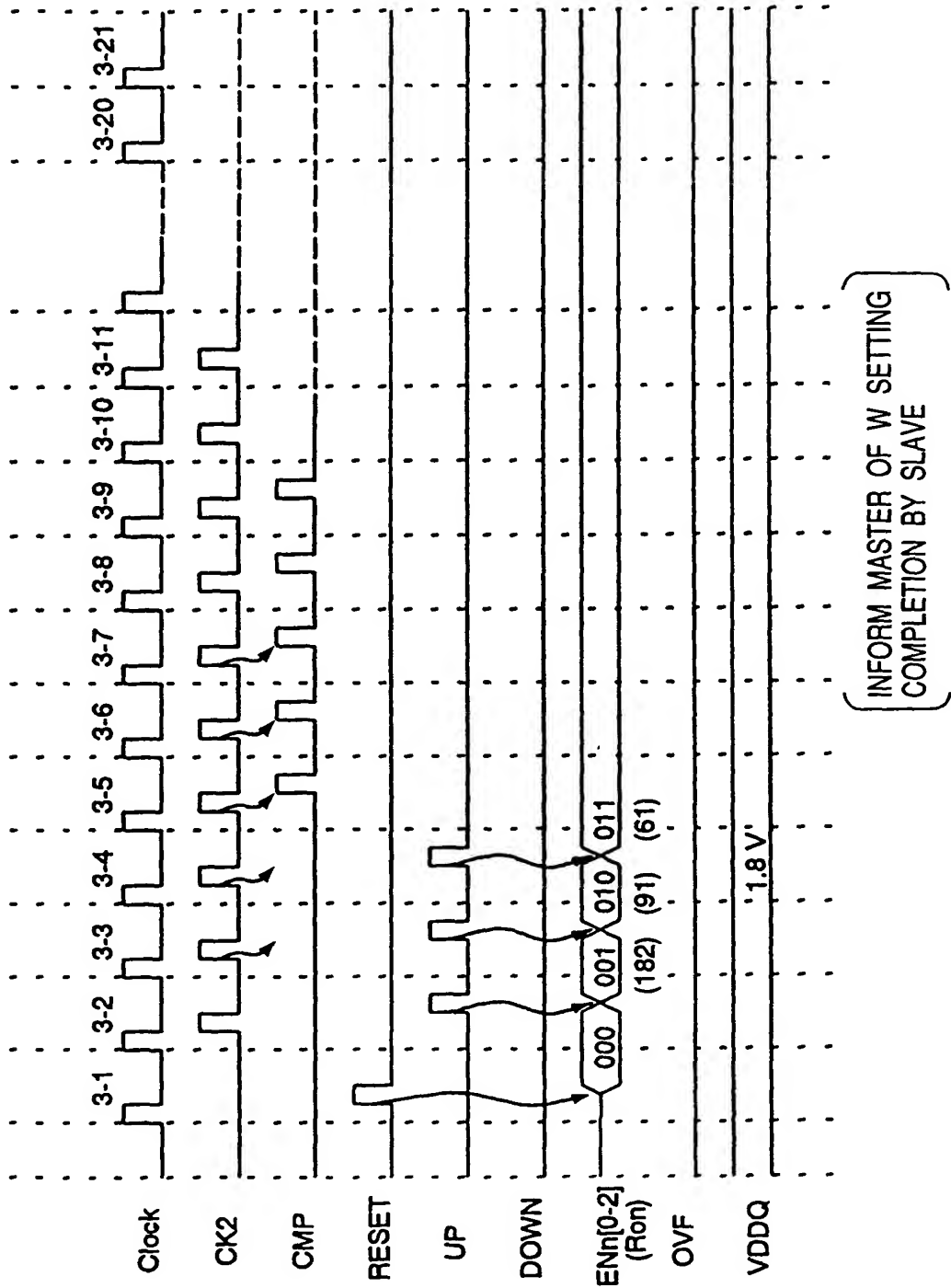
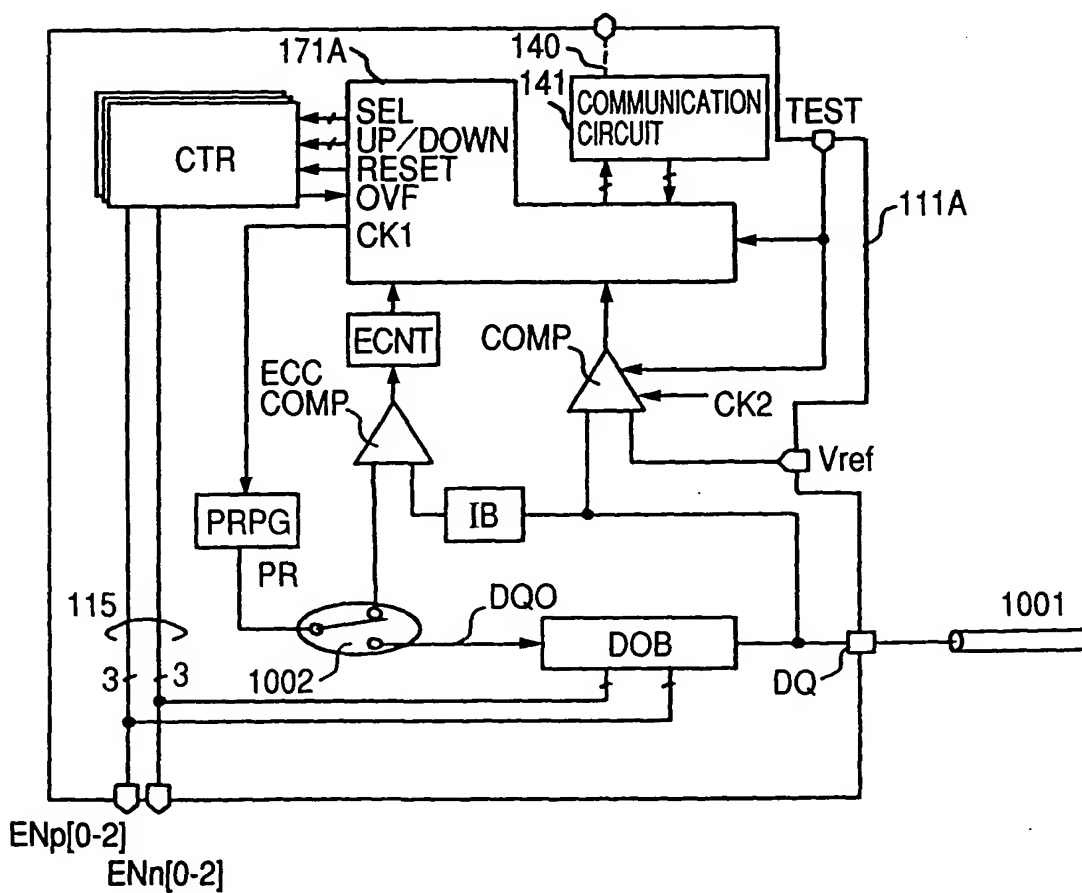
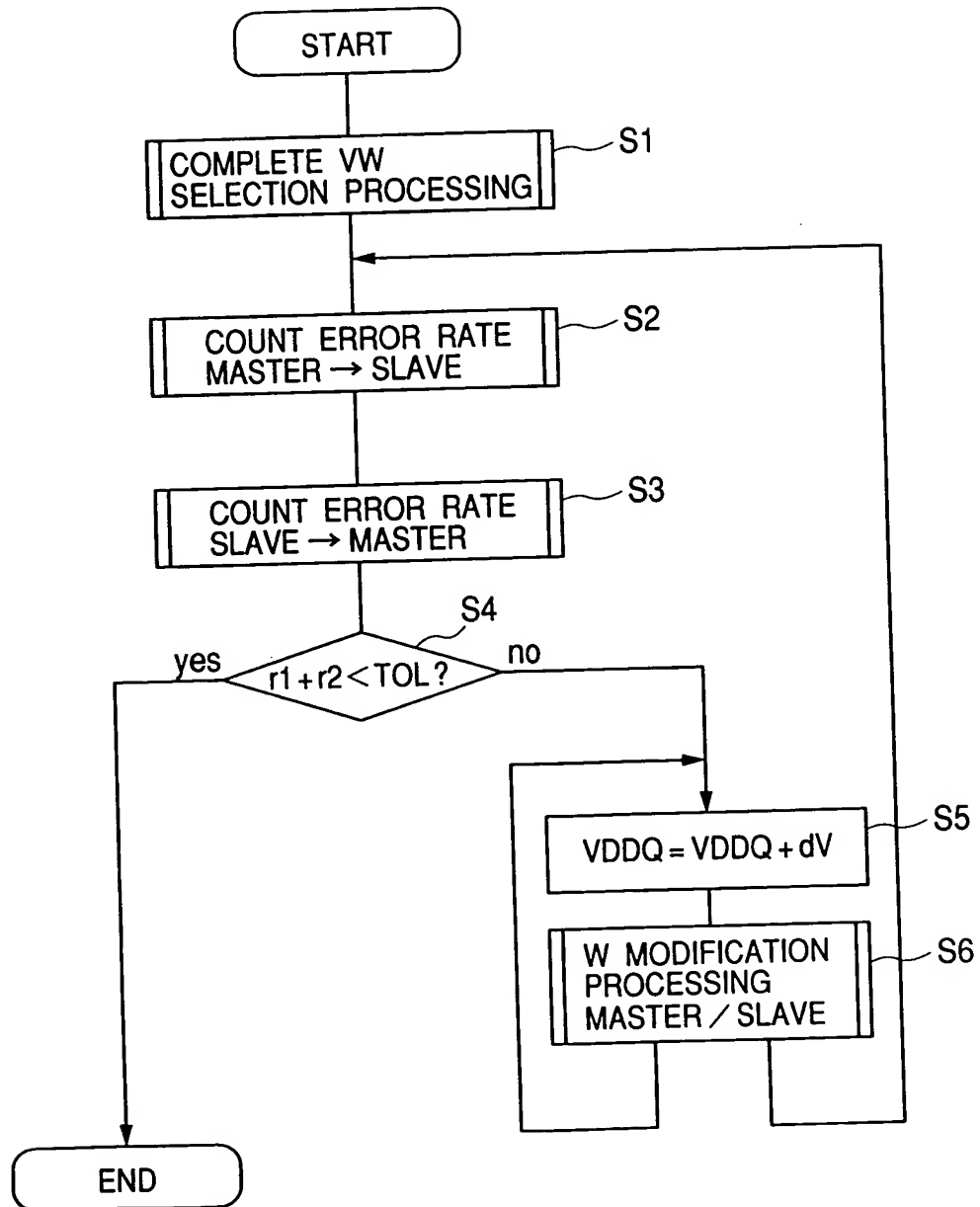


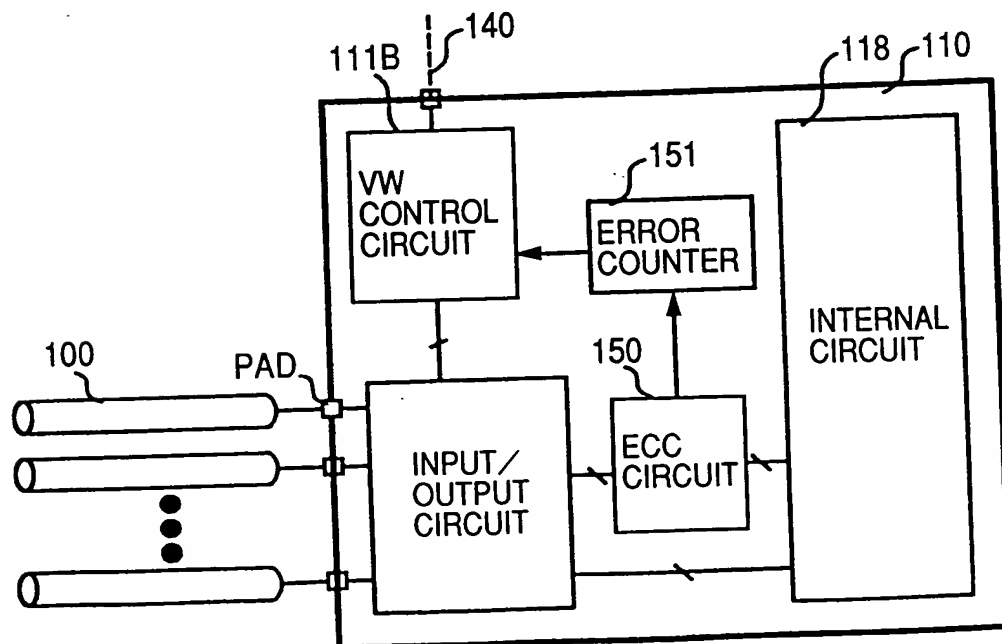
FIG. 16



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FIG. 17





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FIG. 20

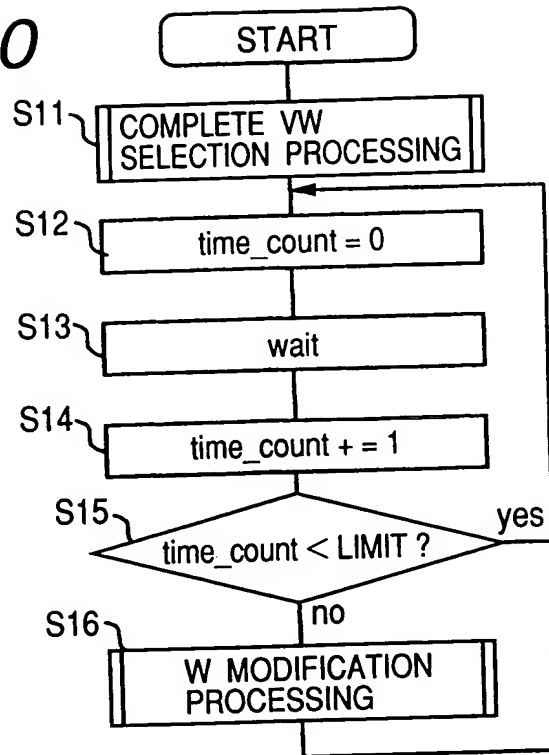
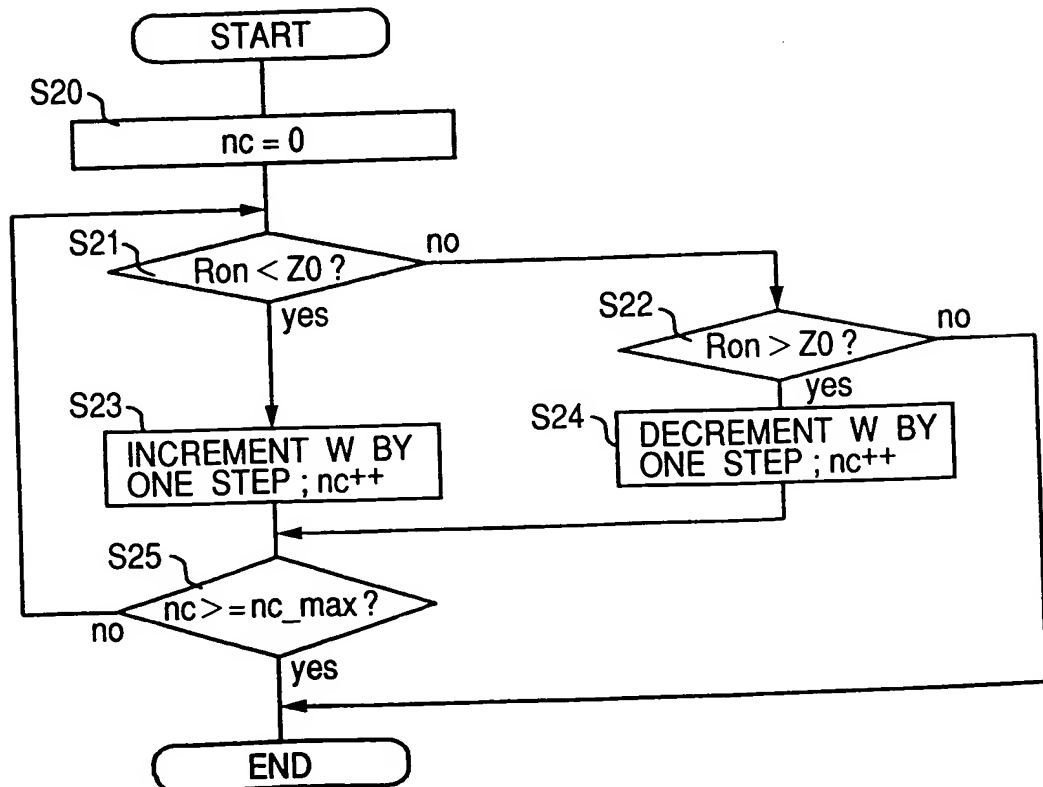


FIG. 21



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FIG. 22

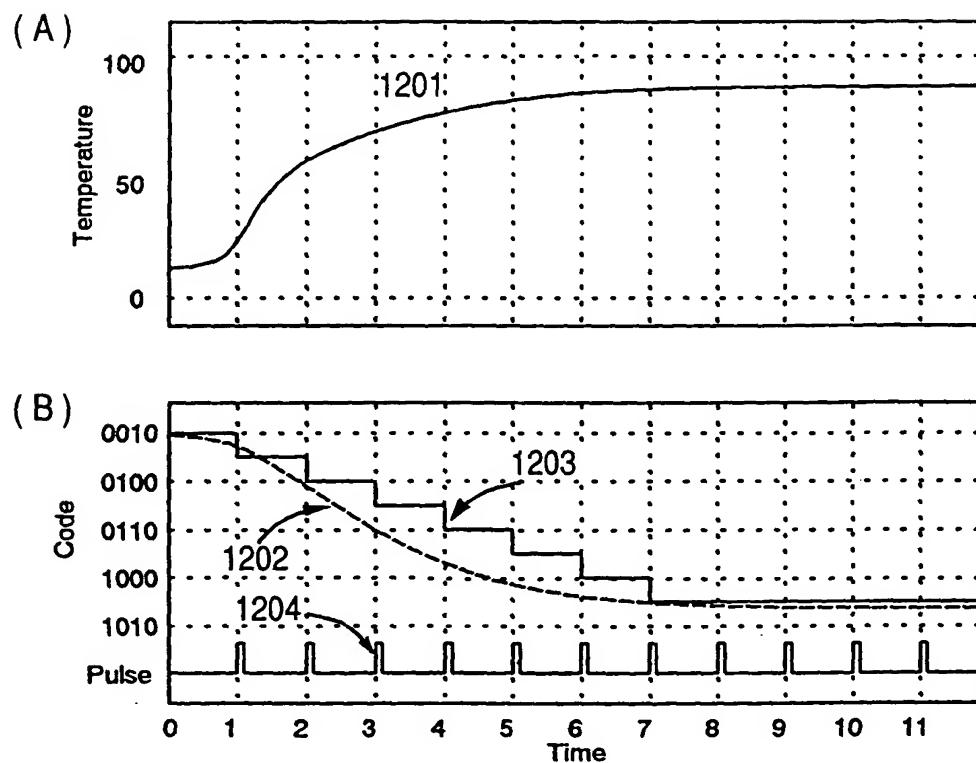
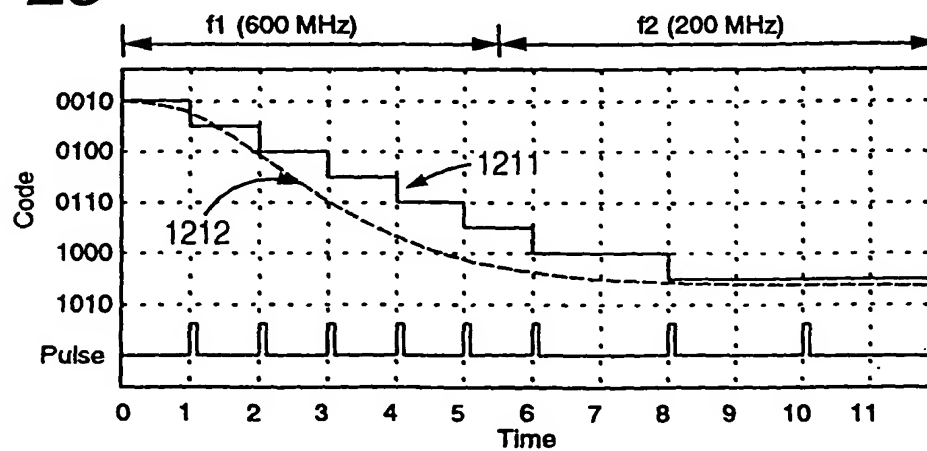


FIG. 23



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FIG. 24

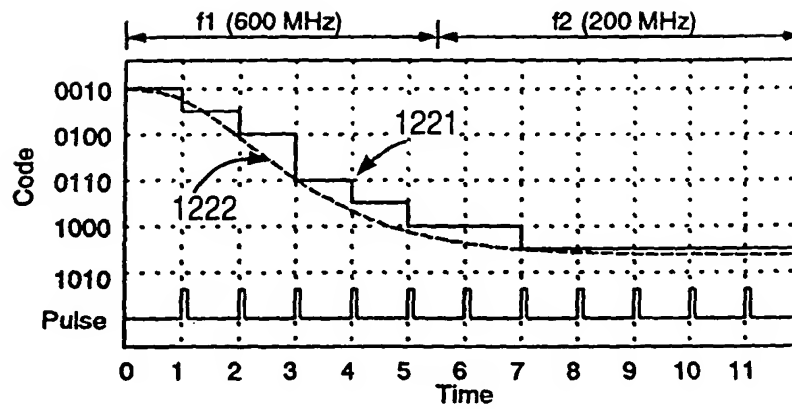
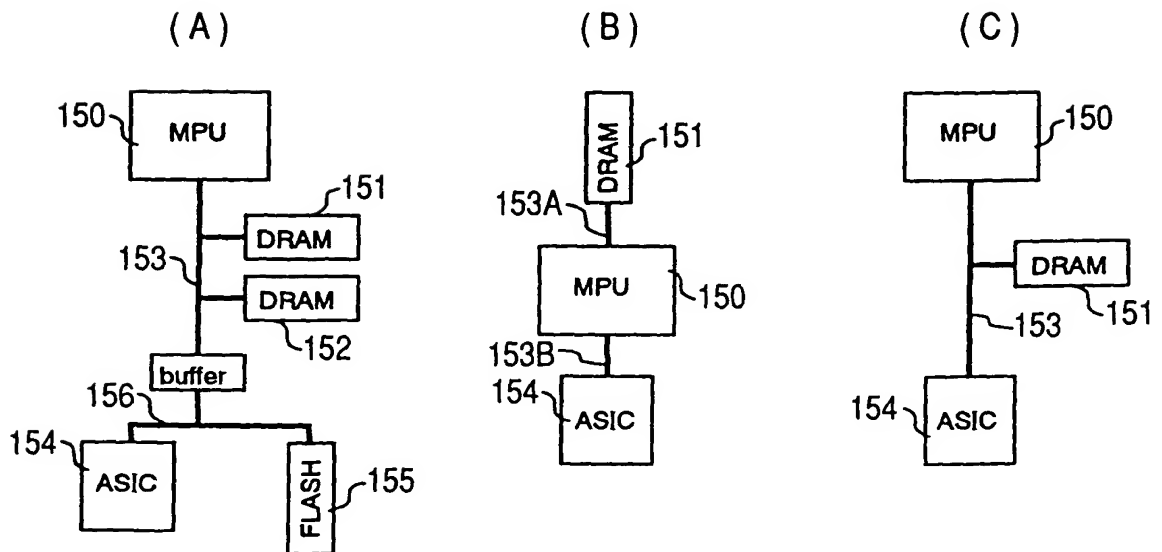
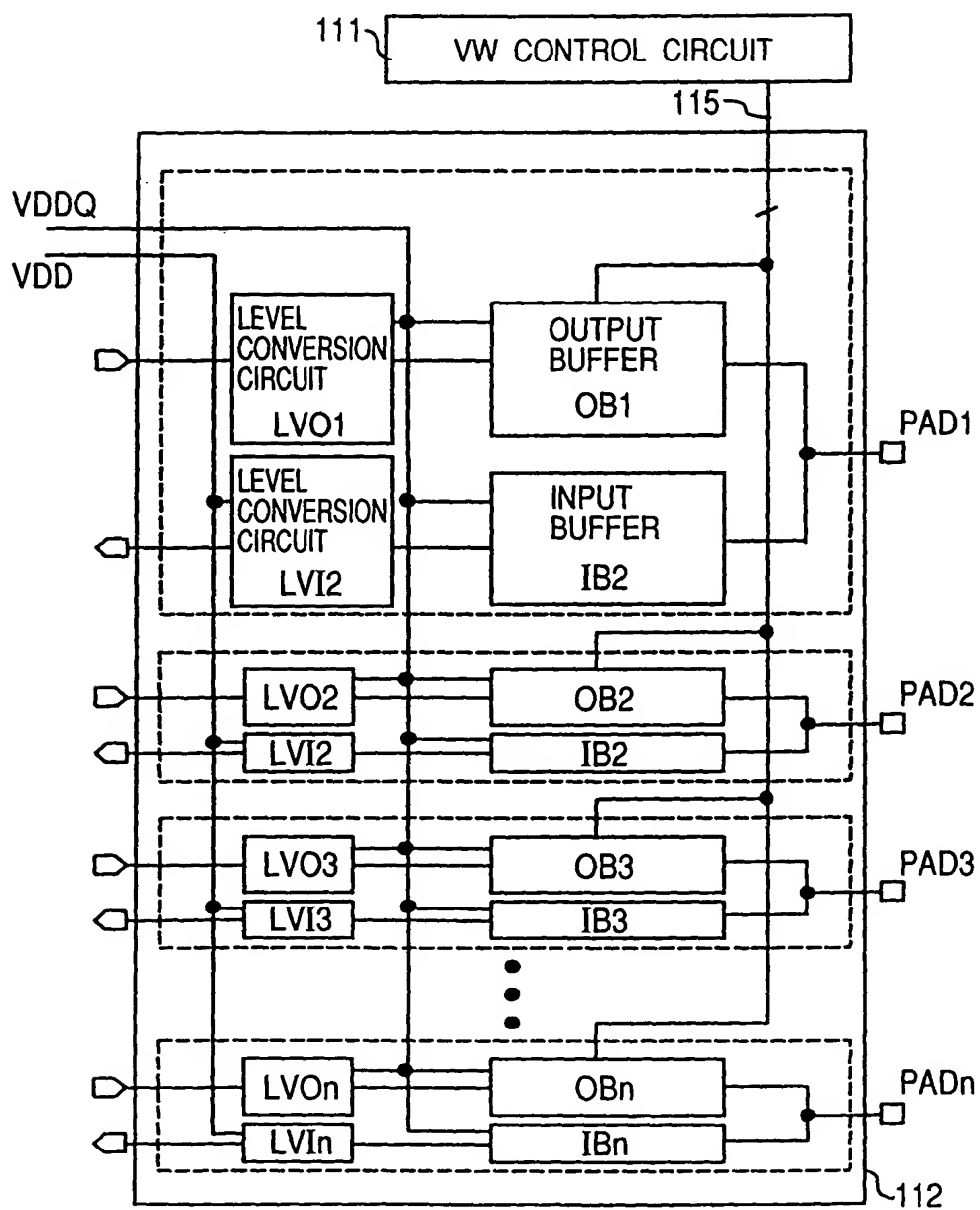


FIG. 25



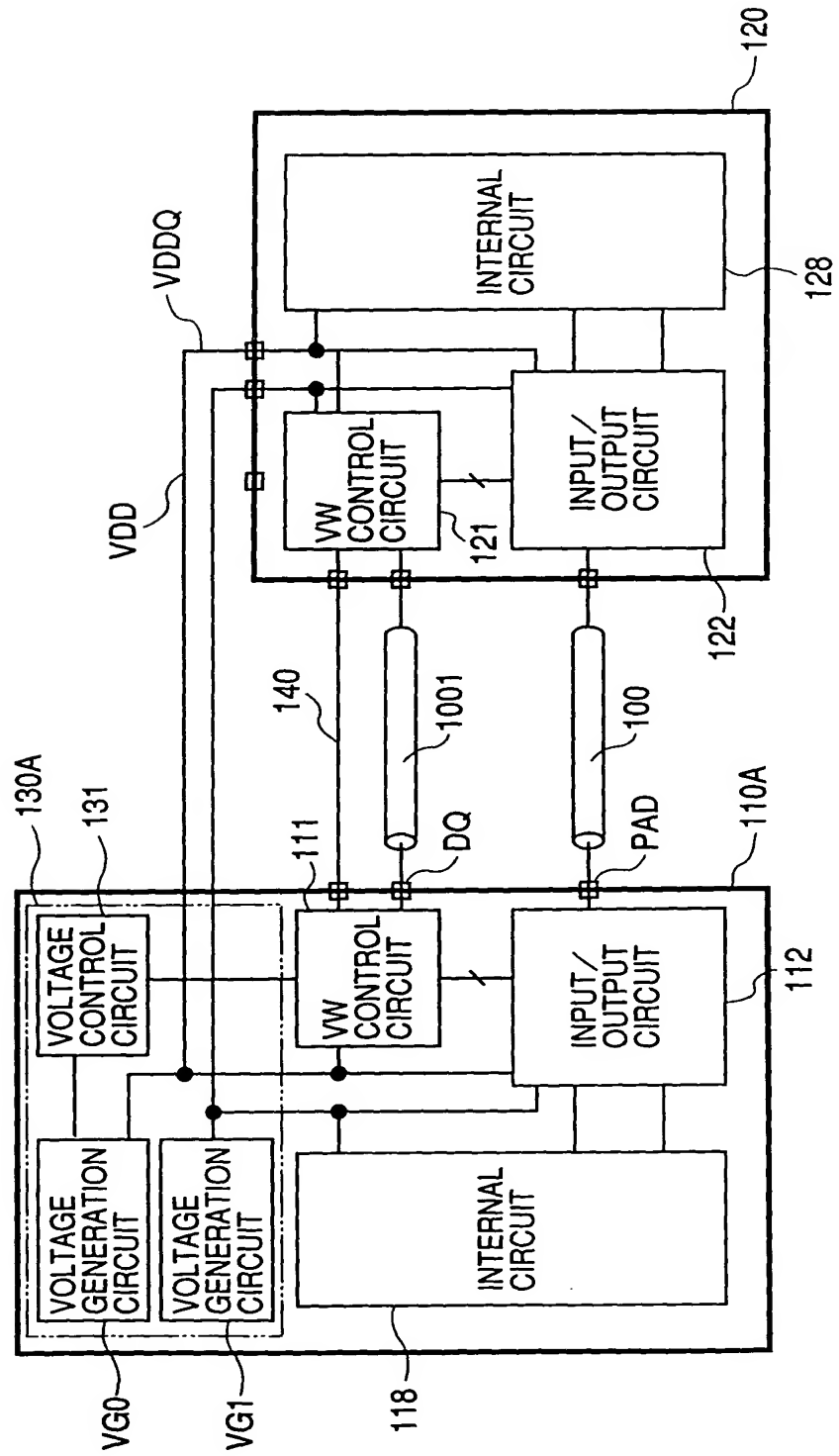
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FIG. 26

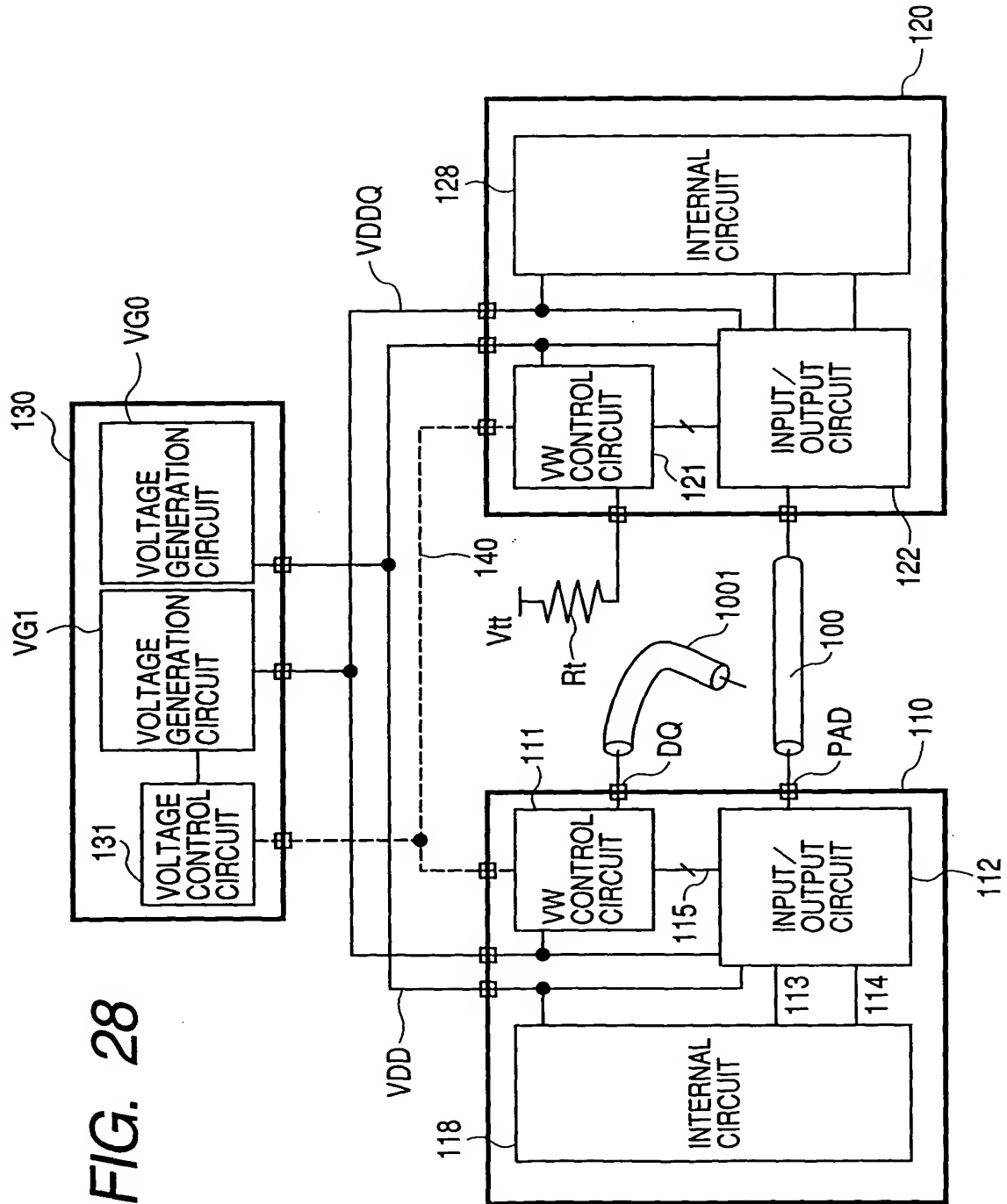


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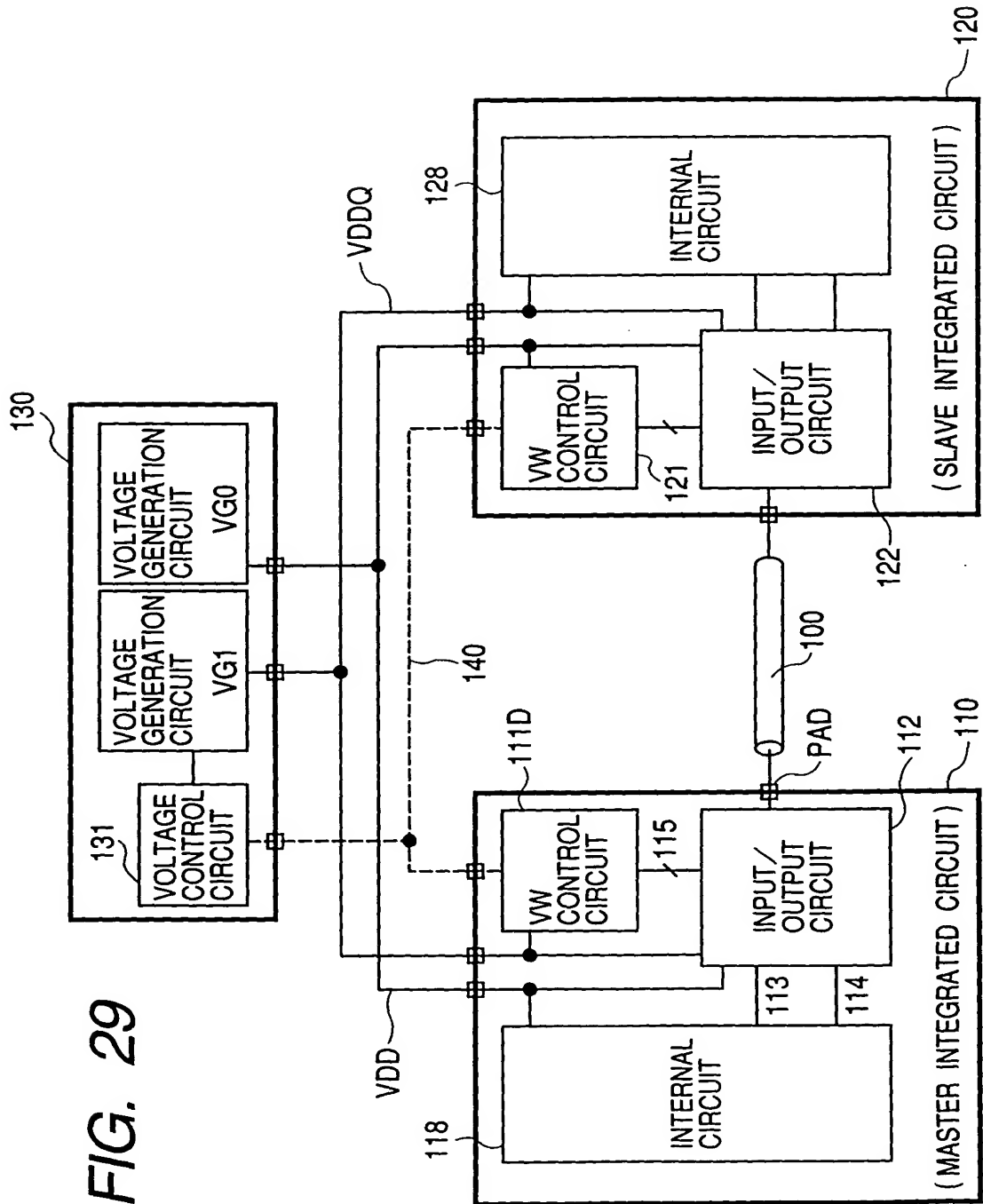
FIG. 27



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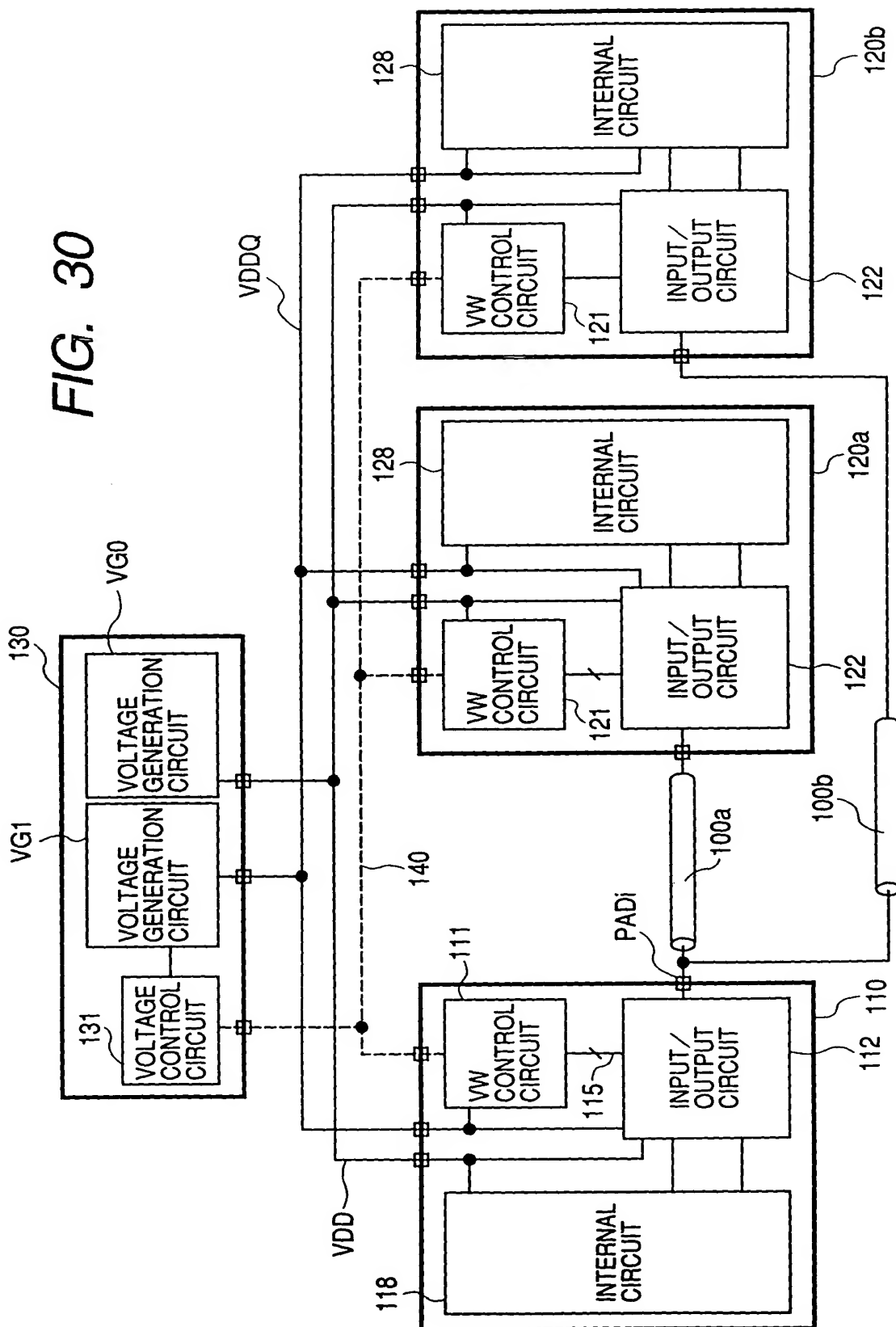


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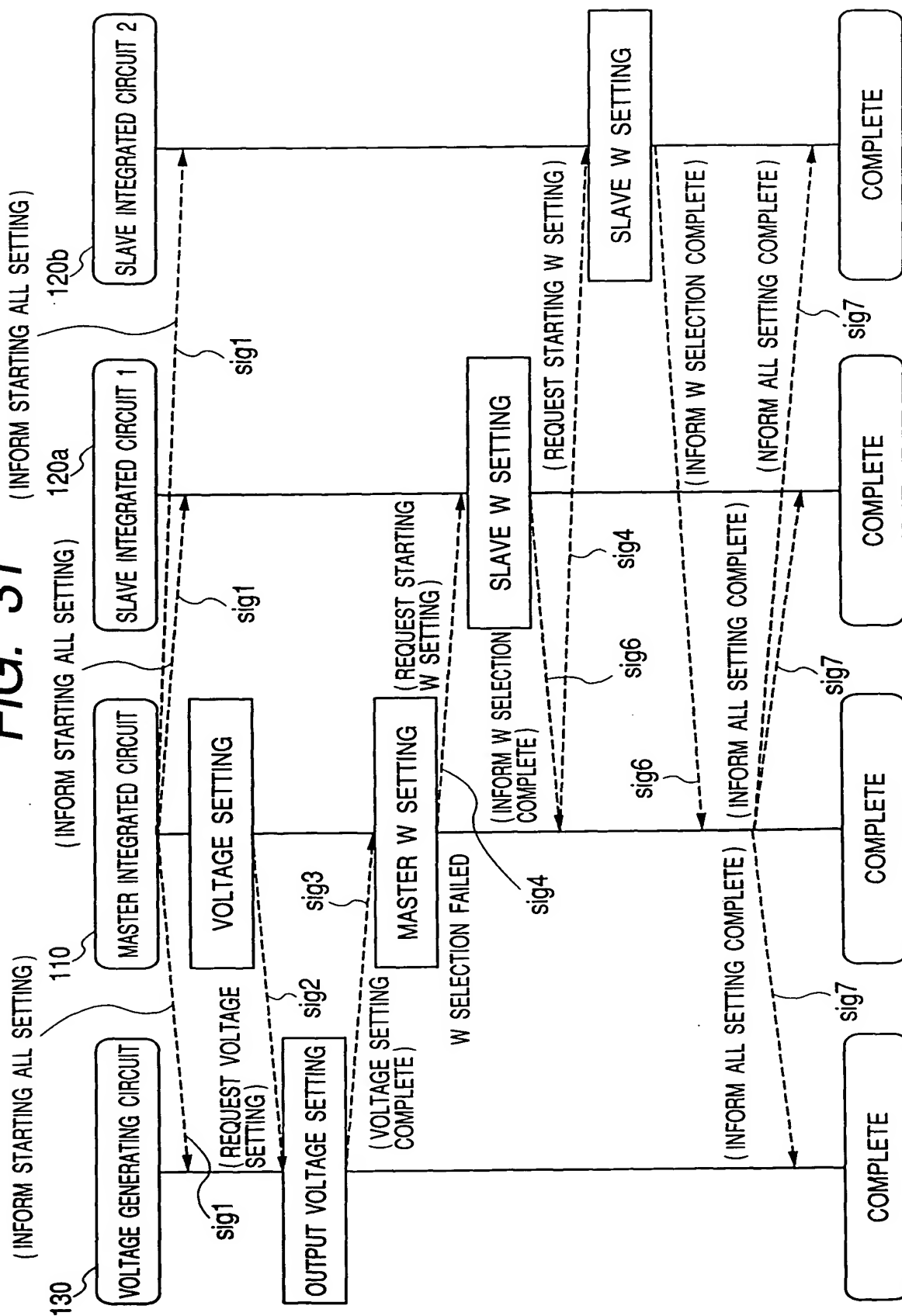
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FIG. 30



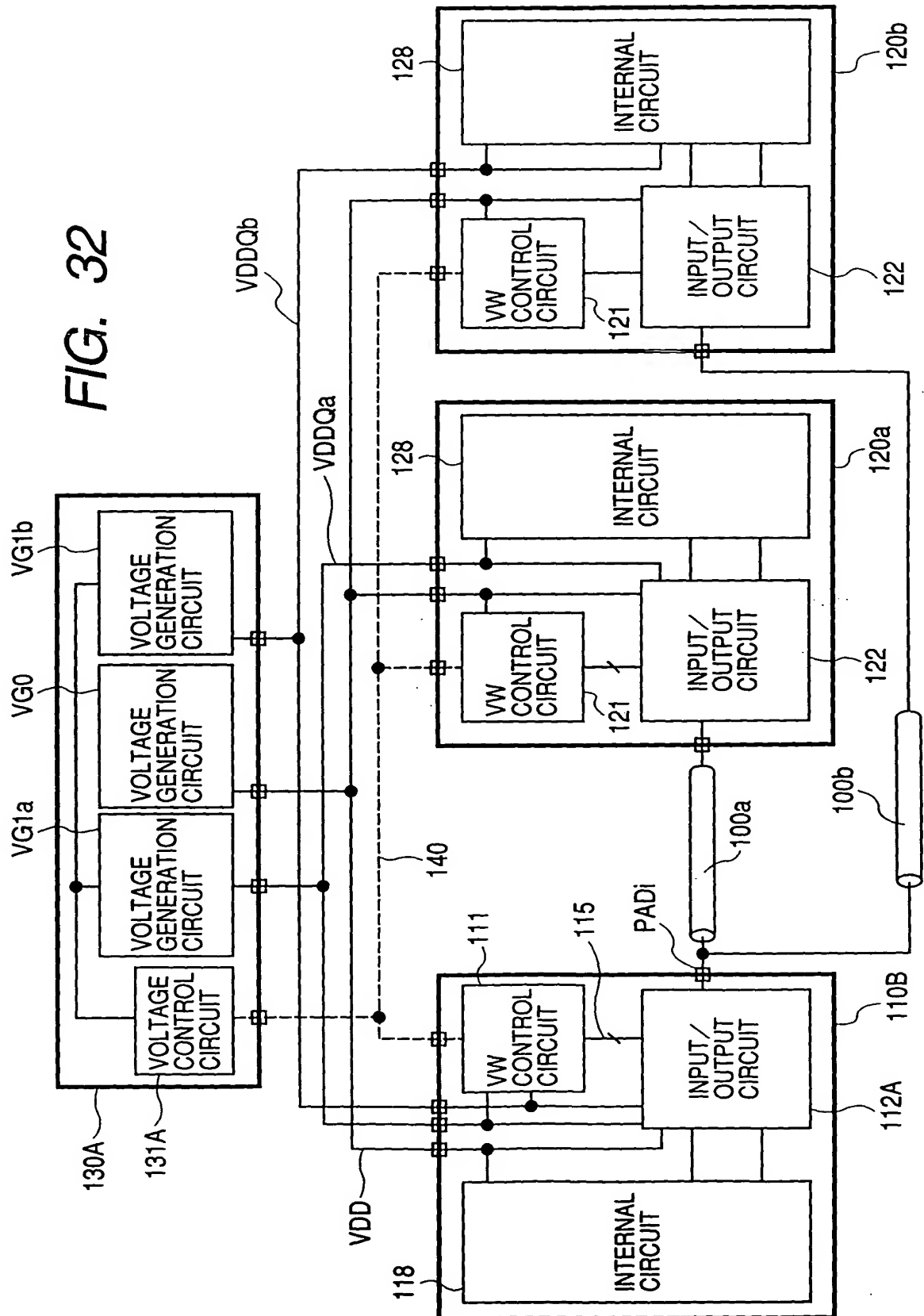
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FIG. 31



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FIG. 32



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FIG. 33

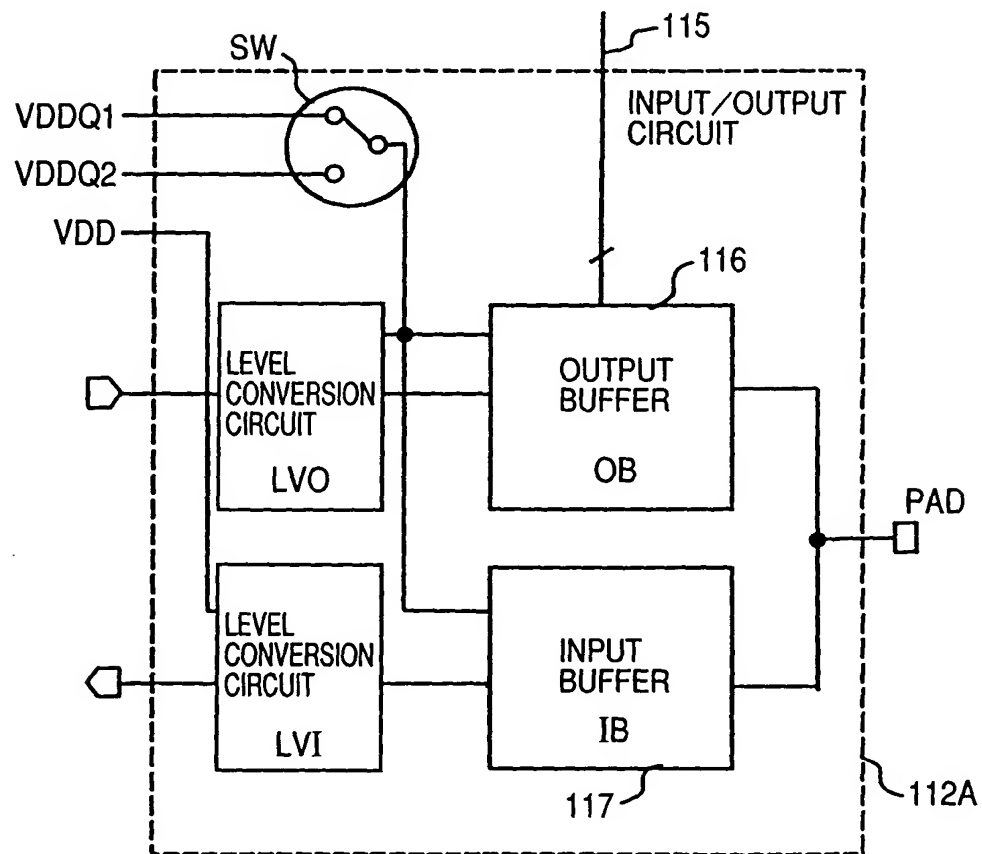
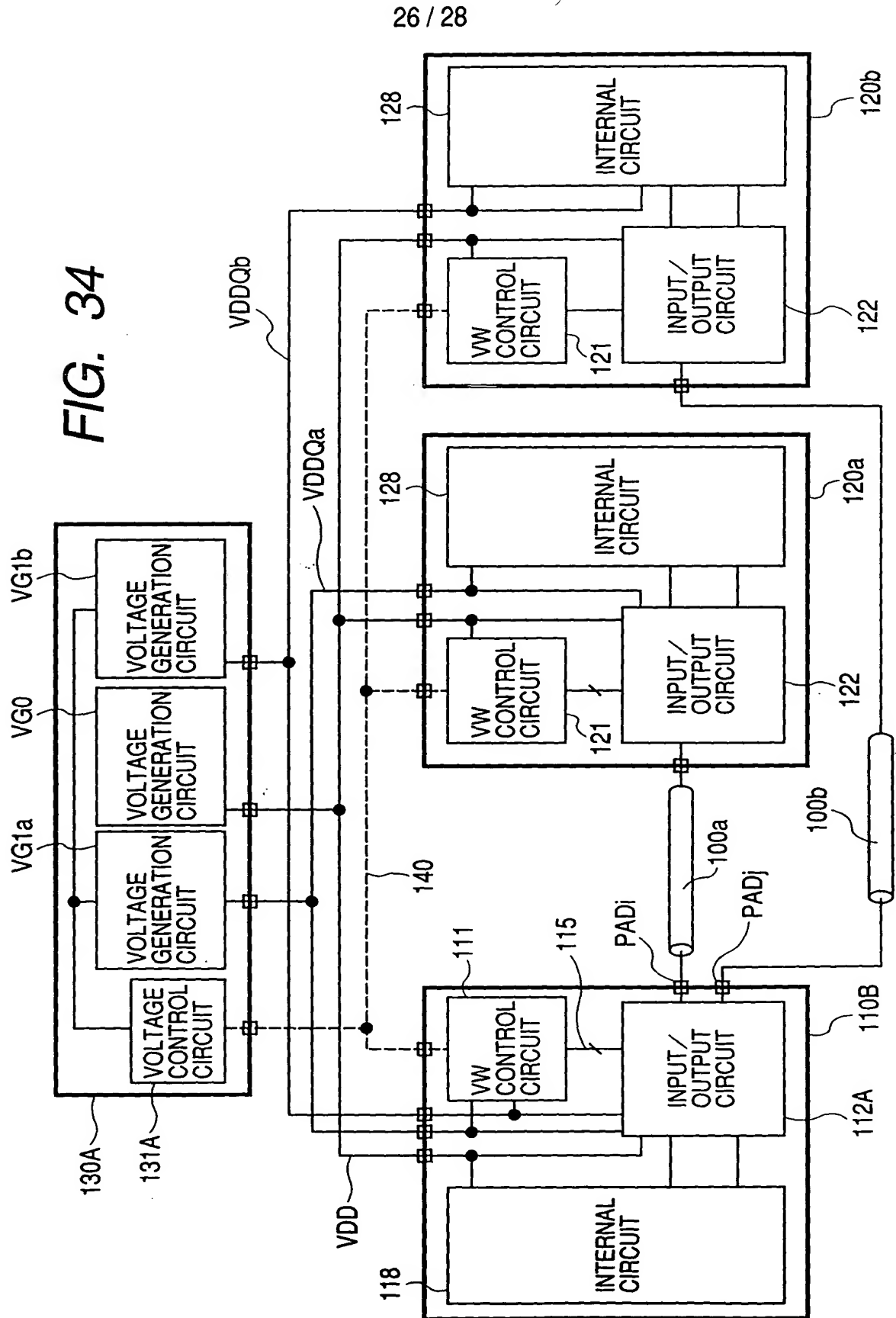
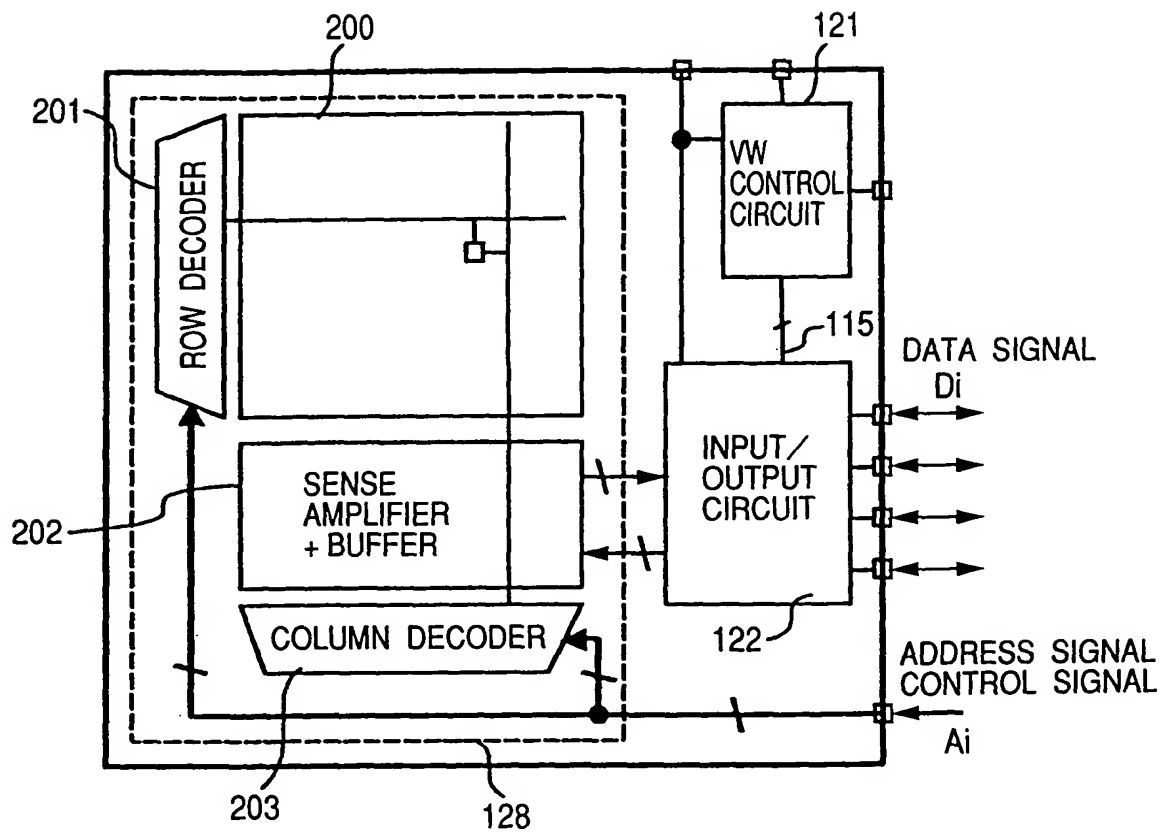


FIG. 34



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FIG. 35



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FIG. 36

